

NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT
Date of report: September 25, 2009
Reporting period: July 1 to September 30, 2009

Project Title:	Water Quality Mitigation and Banking		
RFP NUMBER: 2007-11	NJDOT RESEARCH PROJECT MANAGER: Nazhat Aboobaker		
TASK ORDER NUMBER/Study Number: Task Order #30	PRINCIPAL INVESTIGATOR: Anil K. Agrawal		
Project Starting: 01/01/2007 Project Ending Date: 12/31/2009	Period Starting Date: 07/01/2009 Period Ending Date: 09/30/2009		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Phase I - Literature Search	5		100	5
Task 1: Literature Search	12		100	12
Task 2: Assemble a technical panel composed of representatives from various agencies	12		100	12
Task 3: Make an inventory of future projects and determining the impact to impervious surface within watersheds	12		100	12
Task 4: Investigate water quality mitigation/banking/retrofit sites along State owned roadways within local watershed area	8		100	8
Task 5: Identifying potential mitigation areas and retrofitting those with stormwater enhancements. Propose a methodology to plan, analyze and track improvements and banking credits	8	30	80	6.4
Task 6: Select a specific mitigation/Bank location for the study. The feasibility evaluation will consider ROW, environmental constraints, watershed characteristics, and drainage data. List all environmental constraints, recommend BMP solution and cost estimates	12	30	80	9.6
Task 7: Propose a tracking mitigation program to offset future program needs	8	90	90	7.2
Task 8: Prepare Final Report documenting the finding of the research	18			
Implementation	5			
TOTAL	100%			72.8%

1. Progress this quarter by task:

Progress on Tasks 5 and 6:

- Verified location of underground and aerial public utilities at selected mitigation site. The presence of aerial and un-anticipated underground utilities required utilization of both the Southeast interchange quadrant and the Southwest quadrant of the Rt.3/ Patterson Plank Road Interchange loop.
- Performed field surveying services to obtain critical field information on topography, existing drainage structures and utilities.

- Prepared Mitigation site base-mapping.
- Contracted with Northwest maintenance LLC and completed test pits to provide information on soil types and groundwater.
- Began development of preliminary design of water quality treatment and associated drainage piping.

Progress on Task 7:

- The research team completed the task 7 by developing a computer program based on database to track and manage banking credits. The research team is preparing the technical memorandum on the Task 7.

2. Proposed activities for next quarter by task:

- Finish Tasks 5 and 6 by finalizing the design of water quality treatment and associated drainage piping.
- Finish Technical Memorandum on Task 7.
- Organize a meeting with NJDOT / NJDEP to discuss outcomes of the project.
- Submit final project report.

3. List of deliverables provided in this quarter by task (product date):

4. Progress on Implementation and Training Activities: None

5. Problems/Proposed Solutions: None

6. Budget Summary:

Total Project Budget:	\$399,360
Modified Contract Amount	
Total Project Expenditure to Date	\$298,894
% of Total Project Budget Expended	74.80%